

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) Method A method for producing a hair-fixing product in the form of a foil whereby comprising the steps of:

- a) first a rollable composition is prepared by dissolving or dispersing a polymer in a liquid carrier medium to prepare a rollable composition; and
- b) then by means of a rolling device the composition is rolled rolling the rollable composition into a foil shape by means of a rolling device; and
- c) evaporating the liquid carrier medium at the same time as or subsequently to the rolling in step b) to produce a foil liquid carrier medium is evaporated.

2. (currently amended) Method The method as defined in claim 1, characterized in that wherein the polymer is a foil-forming and/or hair-fixing polymer.

3. (currently amended) Method The method as defined in claim 1, characterized in that wherein the liquid carrier medium is selected from among the group consisting of water, alcohols, ethers, ketones, and hydrocarbons and mixtures of said substances, provided that the substance or mixture of substances is liquid at room temperature (25 °C[[]]).

4. (currently amended) Method The method as defined in claim 1, characterized in that wherein the rollable composition contains the polymer in an amount from 10 to 80 wt.% and the liquid carrier medium in an amount from 20 to 90 wt.%.

5. (currently amended) Method The method as defined in claim 1, characterized in that wherein, after evaporation of the liquid carrier medium, the amount of polymer in the foil is from 50 to 97 wt.%.

6. (currently amended) Method The method as defined in claim 1, ~~characterized in that~~
wherein the composition contains at least one water-soluble polymer.

7. (currently amended) Method The method as defined in claim 1, ~~characterized in that~~
wherein the composition contains pullulan.

8. (currently amended) Method The method as defined in claim 7, ~~characterized in that~~
wherein the pullulan has an average molecular weight from 10,000 to 5,000,000.

9. (currently amended) Method The method as defined in claim 7, ~~characterized in that~~
wherein the composition contains at least one additional hair-fixing polymer.

10. (currently amended) Method The method as defined in claim 9, ~~characterized in that~~
wherein the weight ratio of pullulan to the additional hair-fixing polymer is from 1:10 to
10:1.

11. (currently amended) Method The method as defined in claim 10, ~~characterized in that~~
wherein the additional hair-fixing polymer is selected from the group consisting of:

~~from among~~ polymers derived from at least one monomer selected from among the
group consisting of vinyl lactams, vinyl esters, vinyl alcohols, acrylamides,
methacrylamides, alkylacrylamides, dialkylacrylamides, alkylmethacrylamides,
dialkylmethacrylamides, dialkylaminoalkylmethacrylamides, dialkylaminoalkylacrylamides,
alkyl acrylates, alkyl methacrylates, propylene glycol and ethylene glycol;

~~from among~~ polymers derived from at least one monomer selected from among acrylic
acid, methacrylic acid, crotonic acid, maleic acid, maleic anhydride and monoesters of
maleic acid;

~~from among~~ polymers derived from at least one monomer selected from among
trialkylmethacryloxyalkylammonium, trialkylacryloxyalkylammonium,
dialkyldiallylammonium, alkylvinylimidazolium, alkylvinylpyridinium and
alkylvinylpyrrolidone;

~~from among~~ polymers derived from at least one kind of monomer containing acid groups and from at least one other kind of monomer containing basic amino groups; and

~~from among~~ polymers derived from at least one kind of monomer containing both quaternary amino groups and acid groups or from polymers derived from at least one first kind of monomer containing quaternary amino groups and at least one second kind of monomer containing acid groups.[.]

12. (currently amended) Method The method as defined in claim 11, ~~characterized in that wherein~~ the additional polymer is selected from the group consisting of: among polyvinylpyrrolidone, polyvinylcaprolactam, polyacrylamides, vinylpyrrolidone/vinyl acetate copolymer, crosslinked and uncrosslinked vinyl acetate/crotonic acid copolymers, terpolymers of vinylpyrrolidone, vinyl acetate and vinyl alkanoate, terpolymers of vinyl acetate, crotonate and vinyl alkanoate, partly esterified copolymers of vinyl methyl ether and maleic anhydride, copolymers of acrylic acid and/or methacrylic acid and alkyl acrylates, alkyl methacrylates, N-alkylacrylamides, N-alkylmethacrylamides, and/or polystyrene sulfonates, copolymers of alkylacrylamide, alkylaminoalkyl methacrylate and two or more monomers selected from among acrylic acid, methacrylic acid or the C₁ to C₄ alkyl esters thereof, with at least one of the monomers containing an acid group; copolymers of acrylic acid, methacrylate and methacrylamidopropyltrimethylammonium chloride, copolymers of acrylamidopropyltrimethylammonium chloride and acrylates, copolymers of acrylamide, acrylamidopropyltrimethylammonium chloride, 2-amidopropylacrylamido sulfonate and dimethylaminopropylamine, copolymers of methacryloylethylbetaine and two or more monomers selected from among acrylic acid or the simple esters thereof, methylvinylimidazolium chloride/vinylpyrrolidone copolymers, polyvinylpyrrolidone/dialkylaminoalkyl methacrylate copolymers, quaternized vinylpyrrolidone/dialkylaminoalkyl methacrylate copolymers, homopolymers of dimethyldiallylammonium chloride, copolymers of dimethyldiallylammonium chloride and at least one other monomer, quaternized hydroxyethylcellulose or quaternized guar derivatives, terpolymers of vinylpyrrolidone, vinylcaprolactam and a basic acrylamide monomer or methacrylamide monomer and vinylpyrrolidone/methacrylamidoalkyltrimethylammonium chloride copolymers.

13. (currently amended) Method The method as defined in claim 1, characterized in that wherein the foil additionally contains at least one substance selected from the group consisting of: among emulsifiers, softeners, hair luster-imparting agents, preservatives, fragrances, pigments, product tinting agents and water-insoluble particulate solids.

14. (currently amended) Method The method as defined in claim 1, characterized in that wherein the thickness of the foil after rolling is less than 0.5 mm.

15. (currently amended) Method The method as defined in one of the preceding claims claim 1, characterized in that gas bubbles are introduced and further comprising the step of introducing gas bubbles into the foil.

16. (previously presented) Hair-styling foil made by a method as defined in claim 1.

17. (original) Hair-styling foil containing at least 85 wt.% of at least one hair-fixing polymer and more than 3 wt.% of at least one surfactant.

18. (original) Hair-styling foil as defined in claim 17, characterized in that the hair-fixing polymer is selected from among polysaccharide-based polymers and nonionic synthetic polymers.

19. (original) Hair-styling foil as defined in claim 18, characterized in that it contains as the hair-fixing polymer a combination of (a) pullulan and (b) at least one polymer selected from among polyvinylpyrrolidone and polyvinylpyrrolidone/vinyl acetate copolymer, the weight ratio of (a) to (b) being less than 1:1.

20. (previously presented) Hair-styling foil as defined in claim 17, characterized in that the surfactant used is a mixture of at least one cationic and at least one nonionic surfactant, the weight ratio of the cationic to the nonionic surfactant being 1:10 to 10:1.

21. (original) Hair-styling foil containing at least 50 wt.% of hair-fixing polymers and containing pullulan in combination with at least one additional hair-fixing polymer, the weight ratio of pullulan to the additional hair-fixing polymer being less than 1:1.

22. (original) Hair-styling foil as defined in claim 21, characterized in that it contains pullulan in an amount from 15 to 45 wt.% and the additional hair-fixing polymer in an amount from 30 to 70 wt.%, provided that the weight ratio of pullulan to the additional hair-fixing polymer is less than 1:1.

23. (previously presented) Hair-styling foil as defined in claim 17, characterized in that the foil thickness is less than 0.5 mm.

24. (previously presented) Hair-styling foil as defined in claim 17, characterized in that it contains enclosed air bubbles.

25. (previously presented) Hair-styling foil as defined in claim 17, characterized in that additionally it contains at least one polyol.

26. (original) Hair-styling foil as defined in claim 25, characterized in that it contains the polyols in an amount from 1 to 50 wt.% and that said polyols are selected from among glycols, glycerols, sugar alcohols and polyethylene glycols that are liquid at 25 °C.

27. (original) Hair-styling foil containing at least 50 wt.% of hair-fixing polymers, characterized in that the foil is treated with a powdered release agent adhering to the foil.